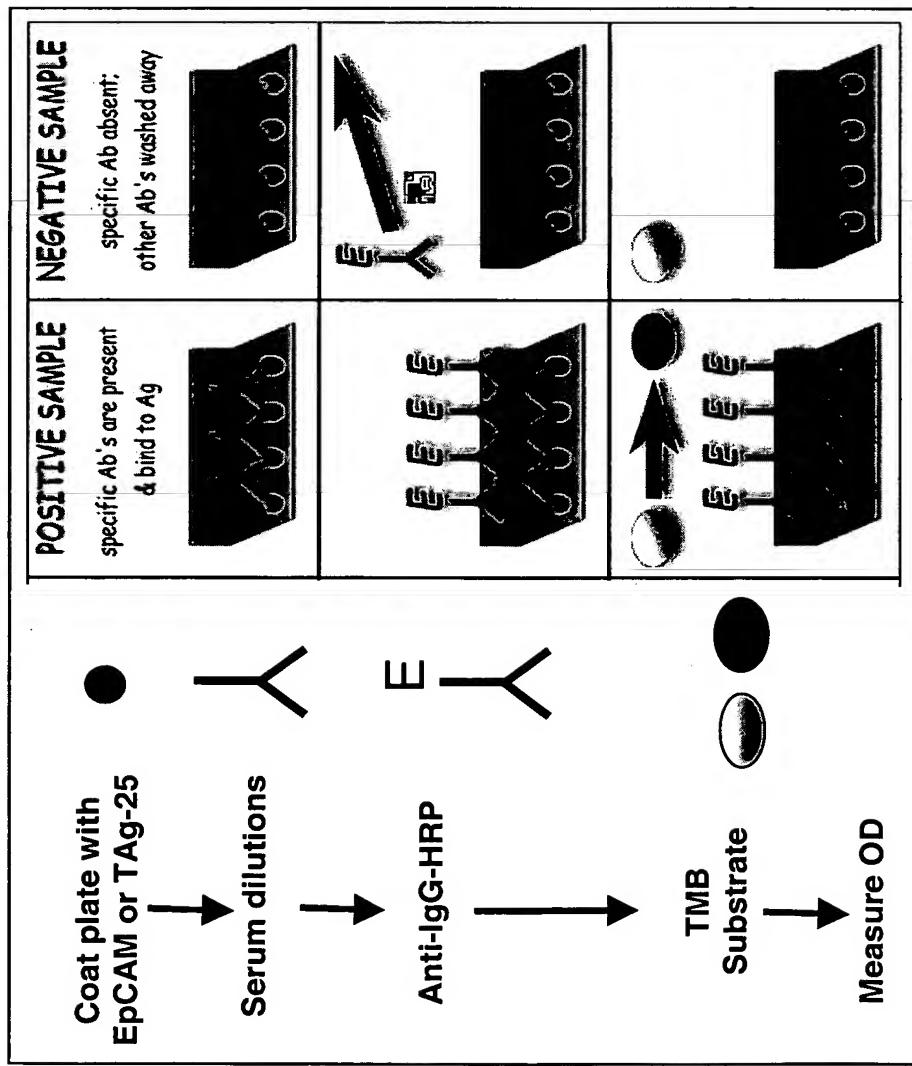




Appl. No. 10/828,559  
Amendment dated Dec. 13, 2004  
Response to Notice of Missing Parts of July 12, 2004  
Replacement Sheet

Figure 1



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Figure 2

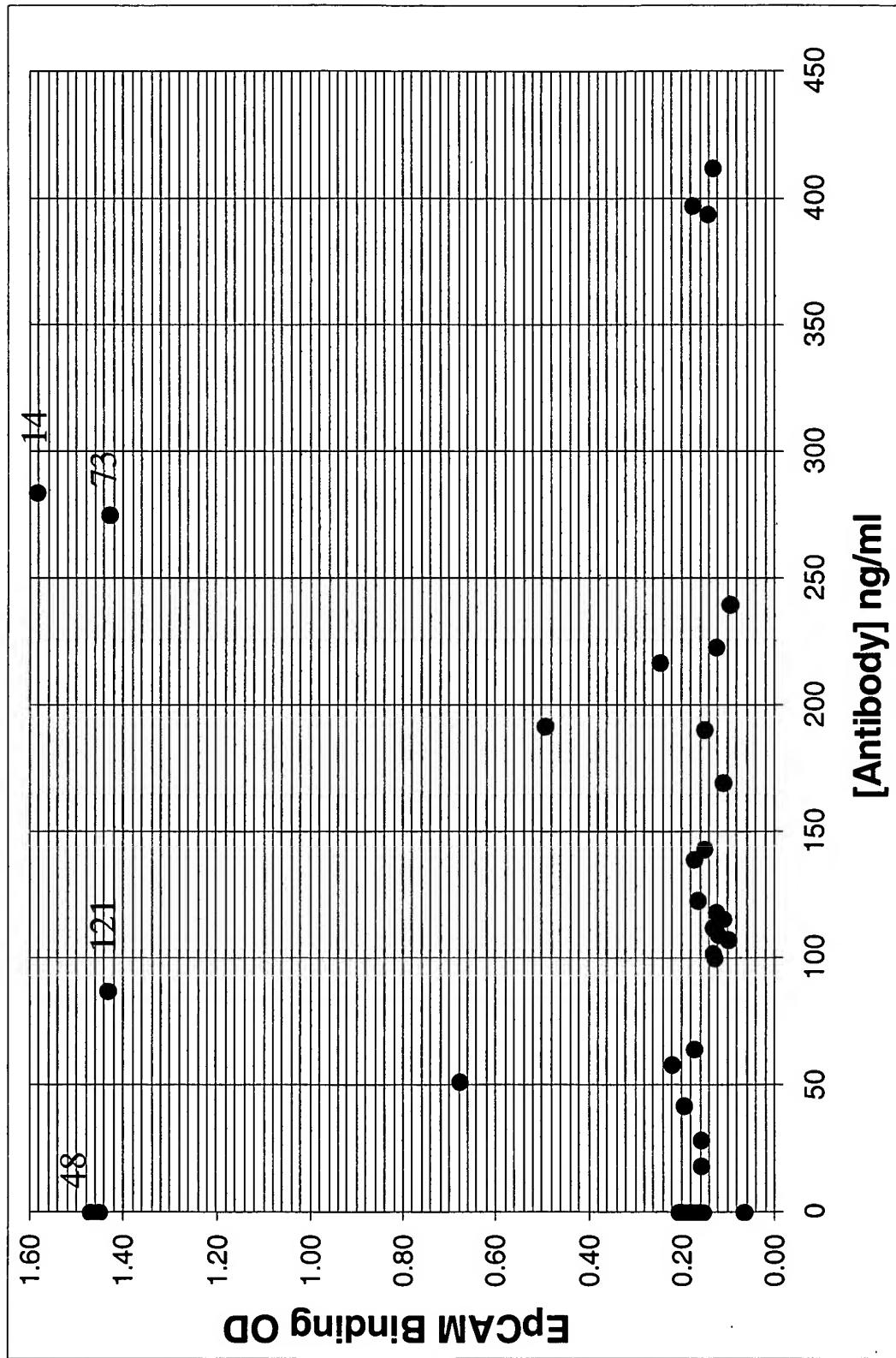
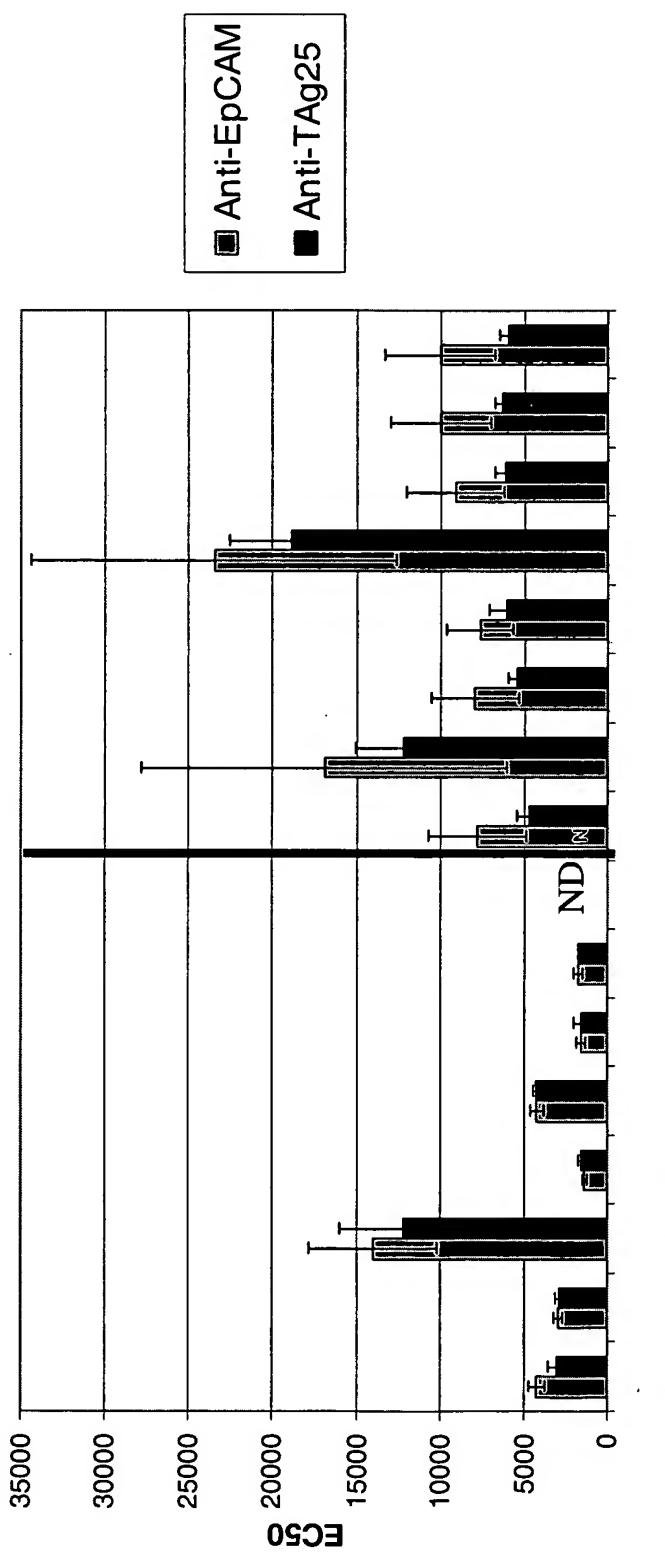
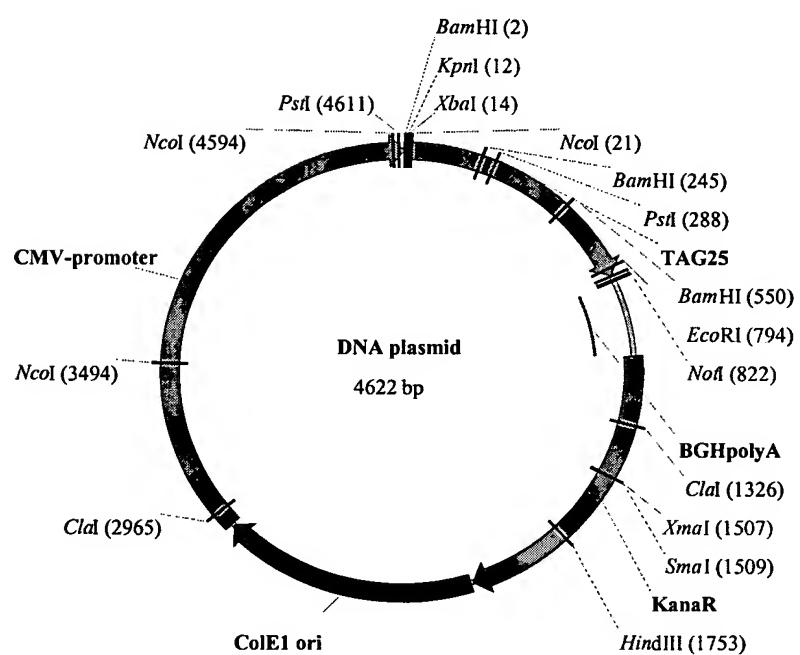


Figure 3



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Figure 4



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Figure 5

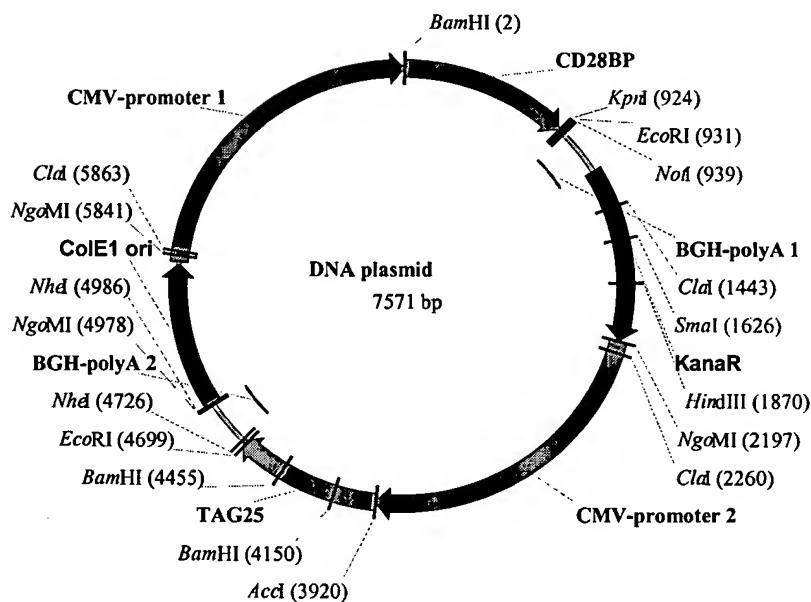
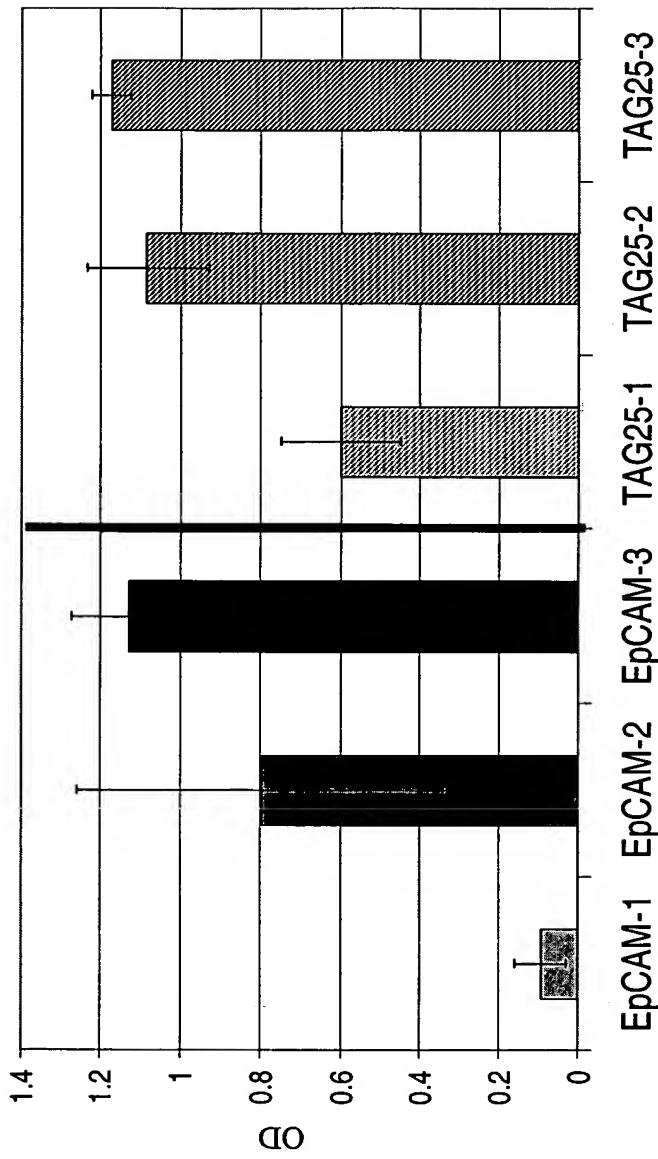


Figure 6



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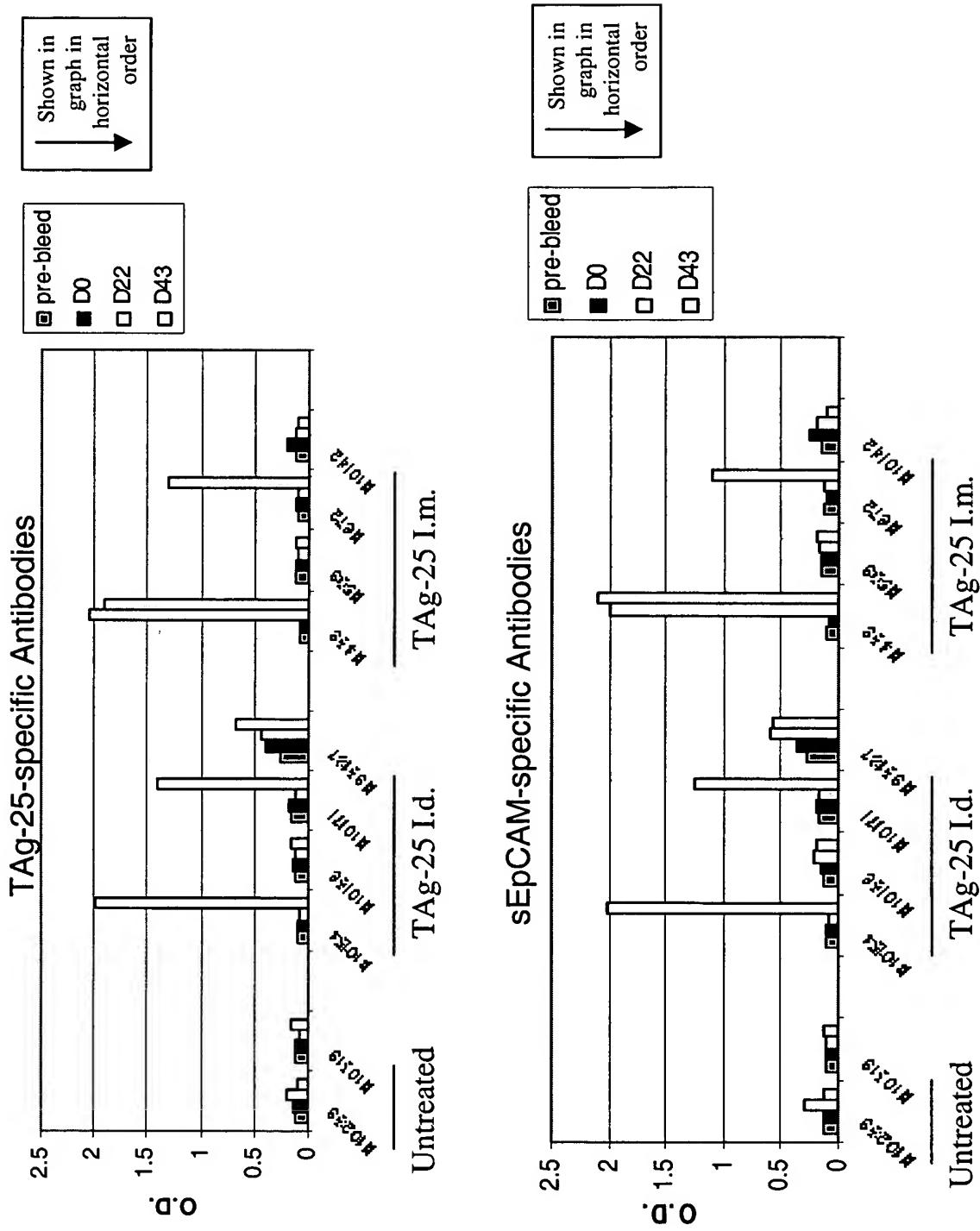
Figure 7



Immunization

**Figure 8**

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Figure 9A

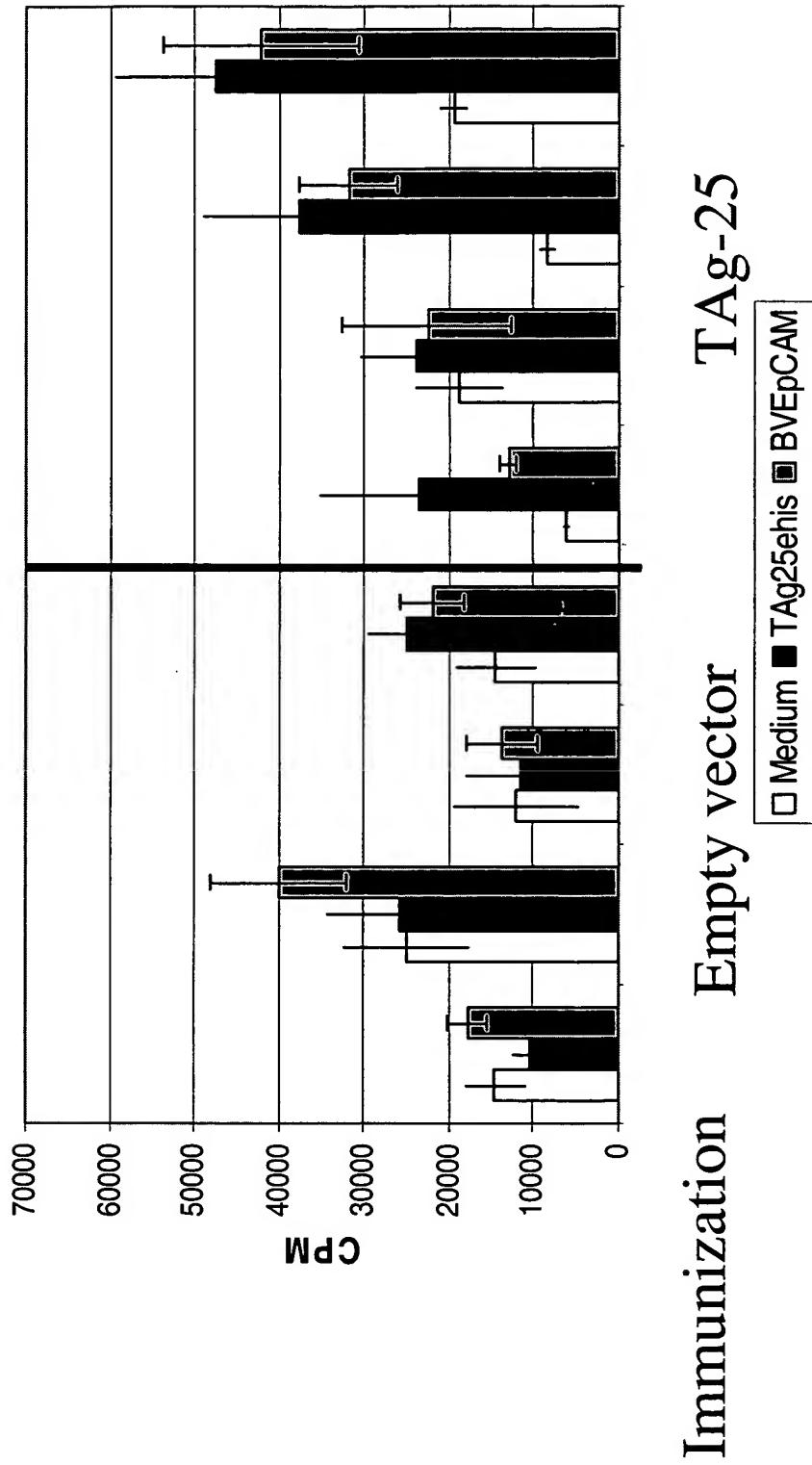
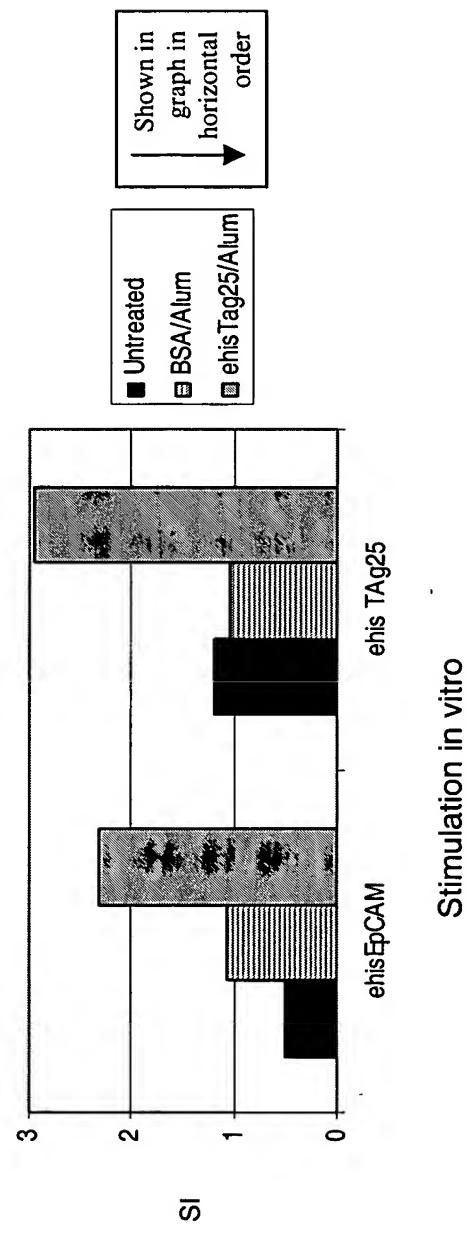


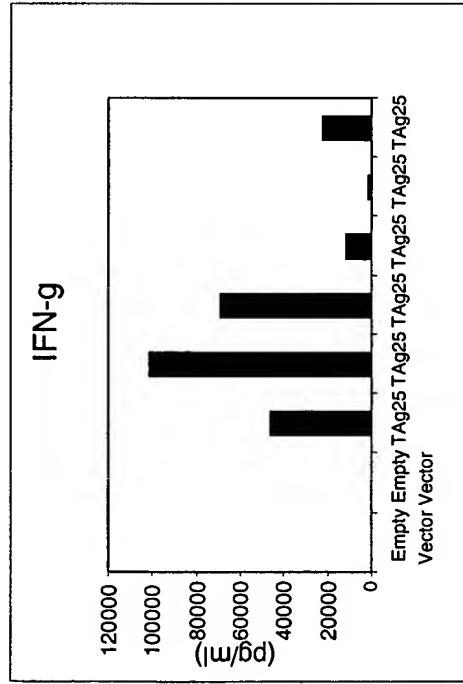
Figure 9B

Protein Vaccine:

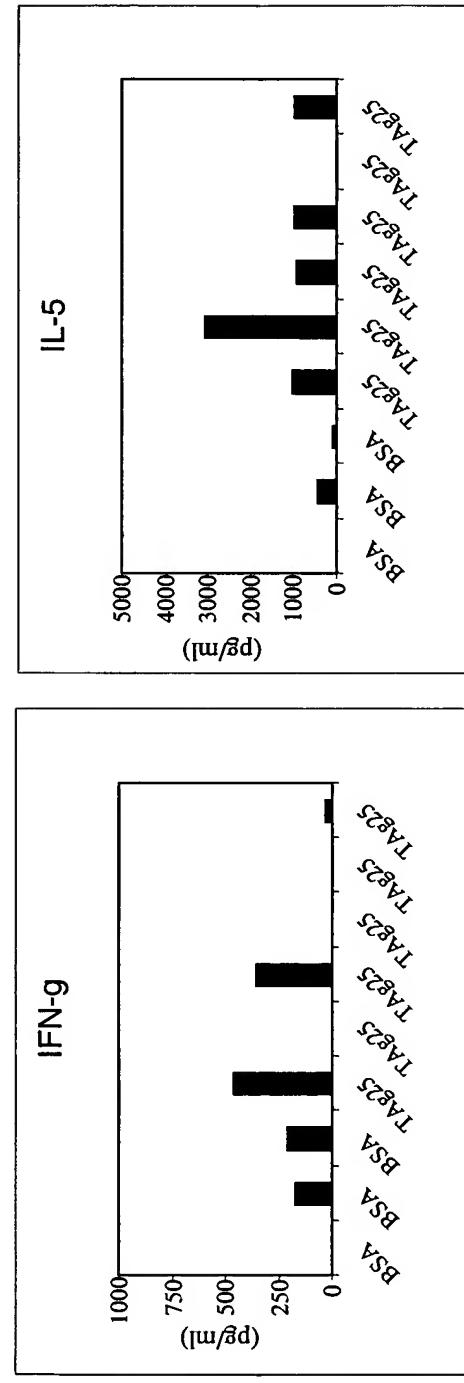


Figures 10A and 10B

A



B



Immunization

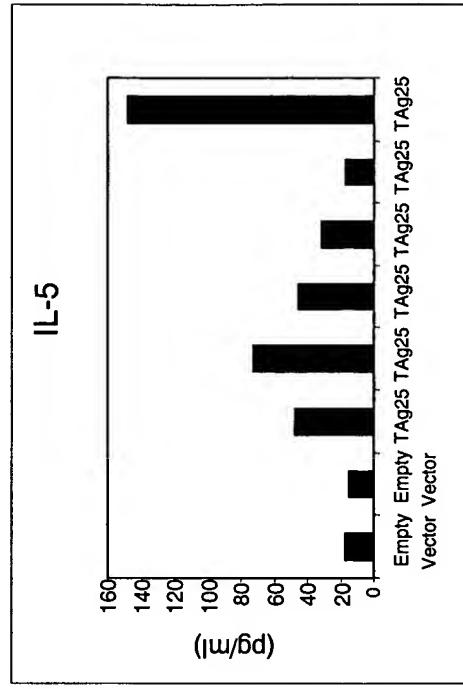


Figure 11

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DNA Treatment	Route	Pre-bleed	1st DNA	2nd DNA	3rd DNA	4th DNA
		Responders to EpCAM	Responders to TAG25	Responders to EpCAM	Responders to TAG25	Responders to EpCAM
Saline	im	0	0	0	0	0
EpCAM	id	0	0	0	1	1
EpCAM	im	0	0	1	0	2
TAG25	id	0	0	0	0	3
TAG25	im	0	0	1	1	4

Figure 12

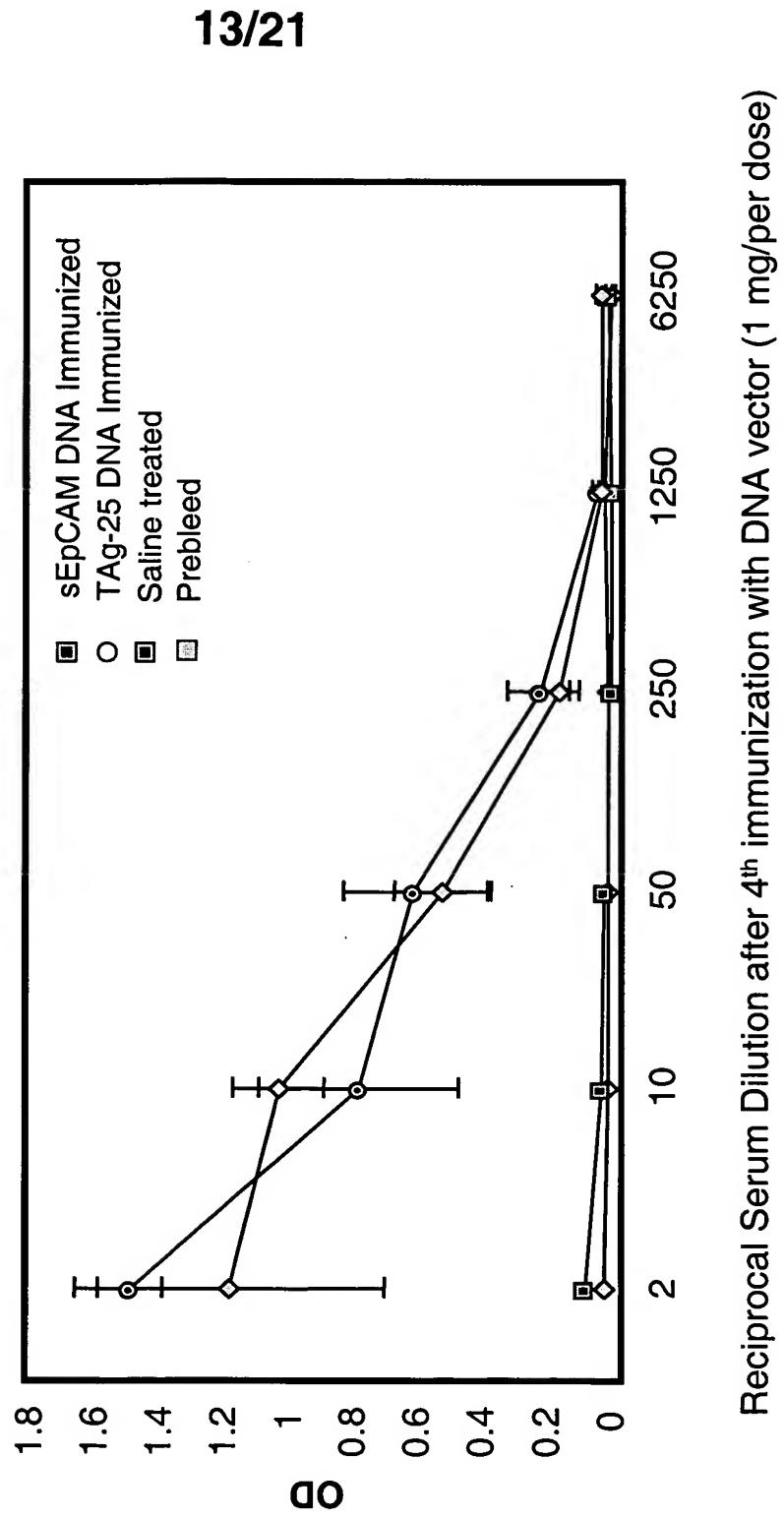


Figure 13

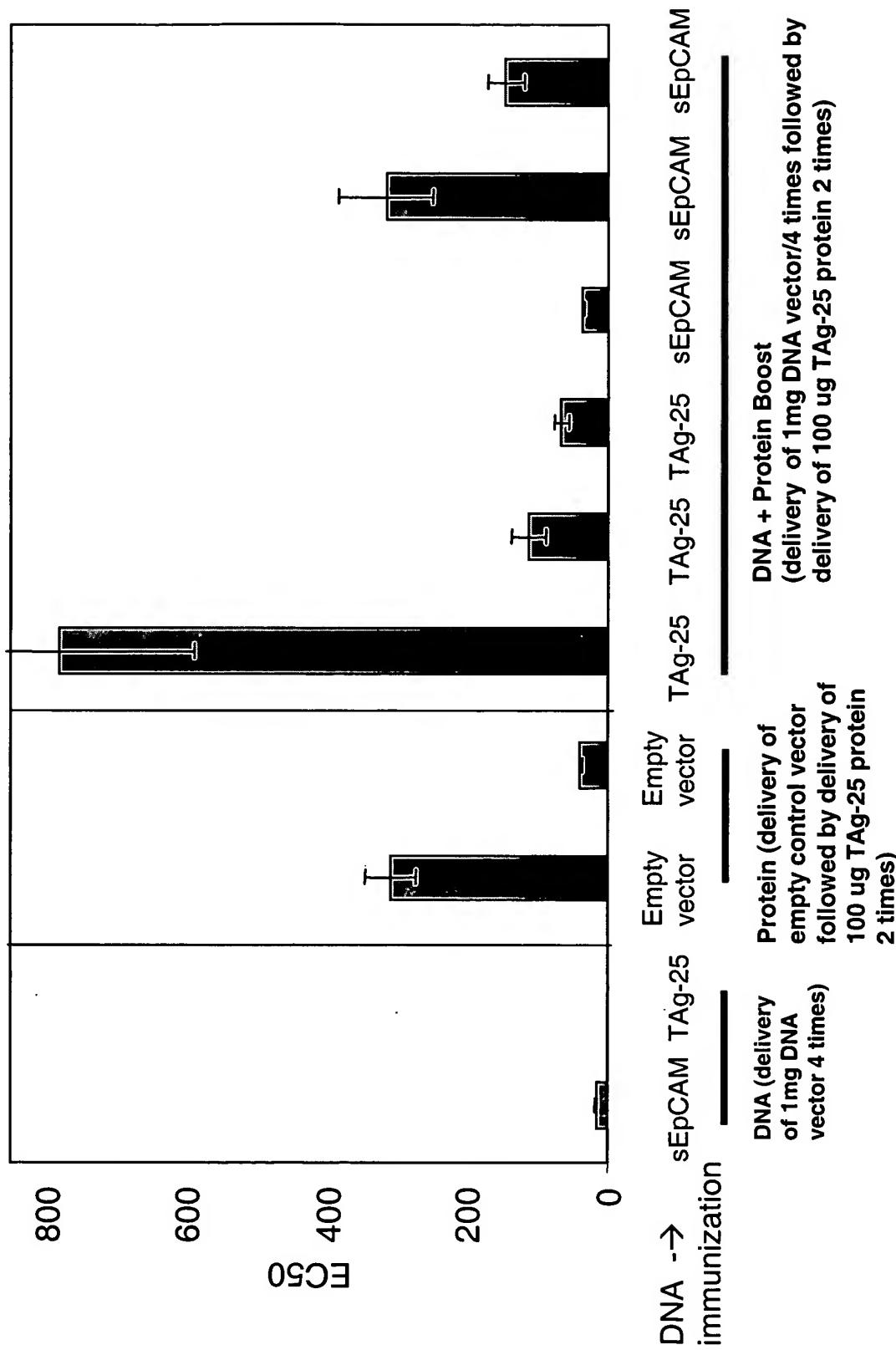


Figure 14

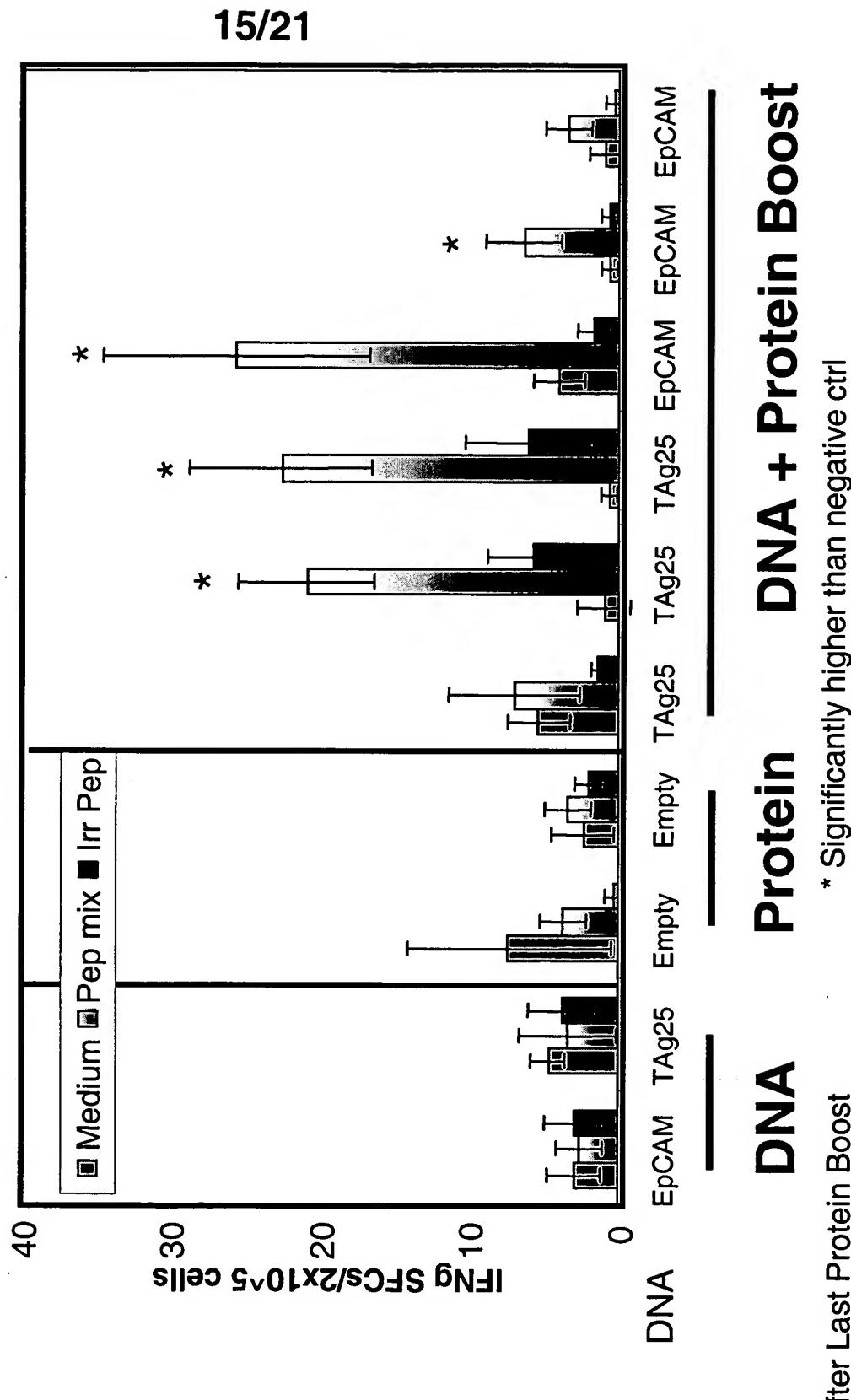
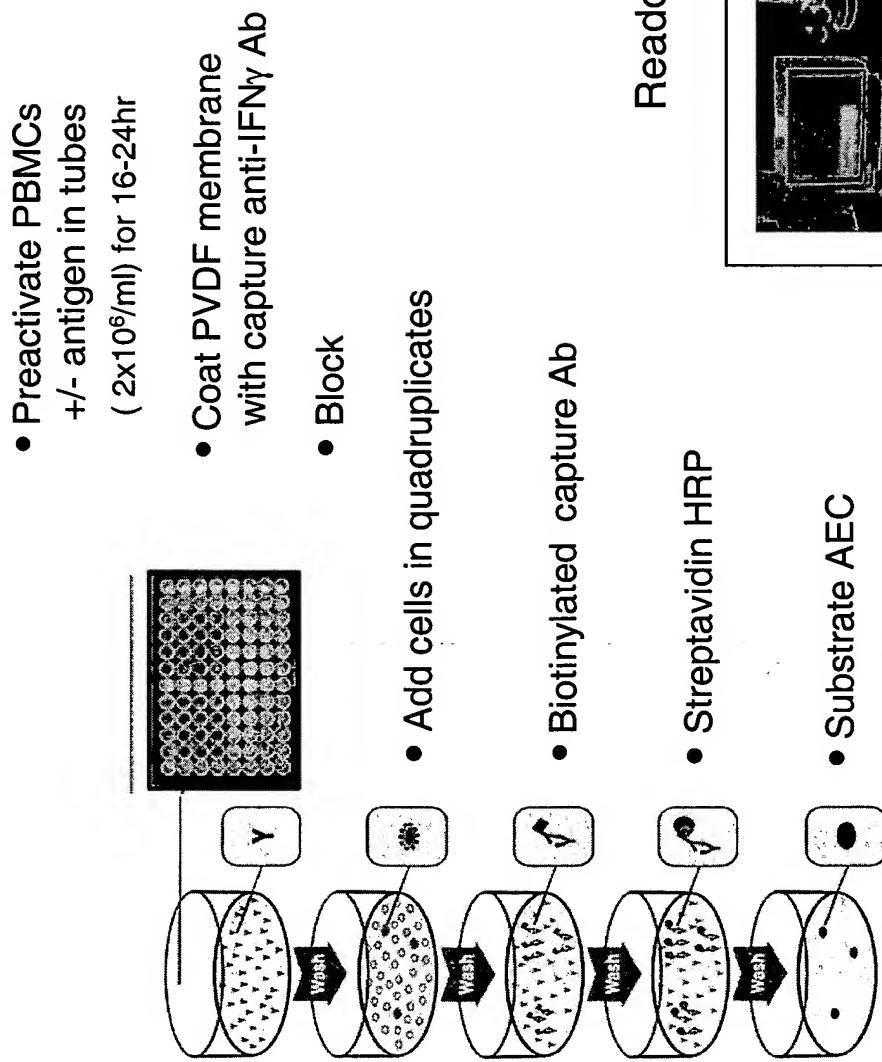


Figure 15



**Readout: IFN $\gamma$  Spot Forming Cells**

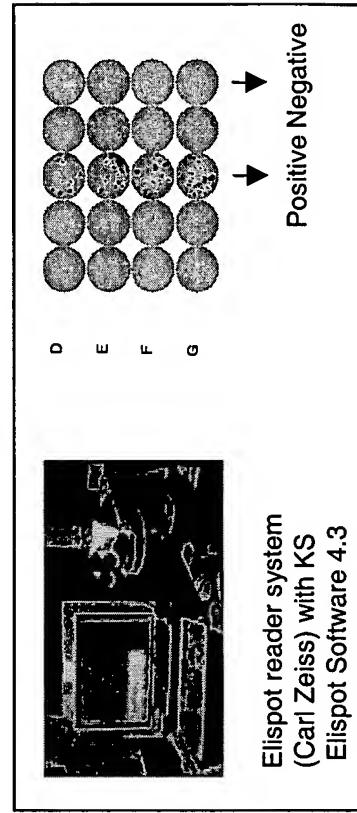
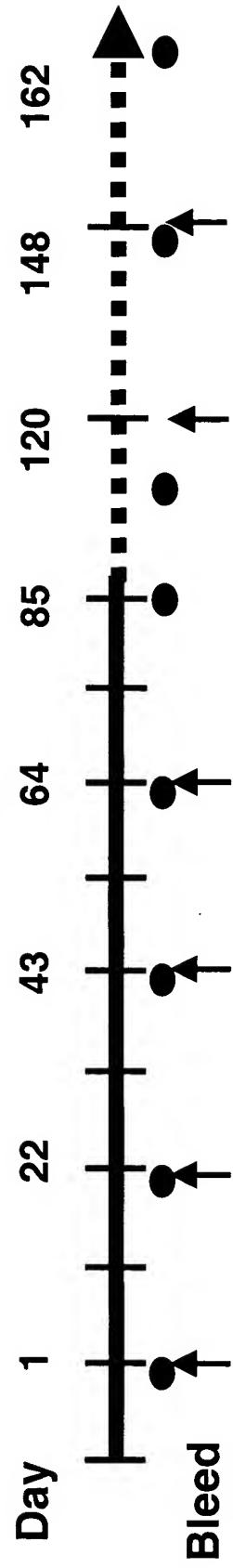


Figure 16



**2mg DNA 4x every 3 wks**

DNA immunizations (n=5):

- Empty vector i.m. or i.d.
- TAG25 i.m. or i.d.
- TAG25/hB7.1 i.m. or i.d.
- TAG25/CD28BP i.m. or i.d.
- TAG25 + control DNA i.m.
- TAG25 + hB7.1 i.m.
- TAG25 + CD28BP i.m.

**100ug TAg25 protein in 2mg Alum**

**2x every 4wks; i.m.**

Given to 20 monkeys previously  
treated with DNA i.d.

Animal Species:

*Macaca fascicularis*



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Figure 17

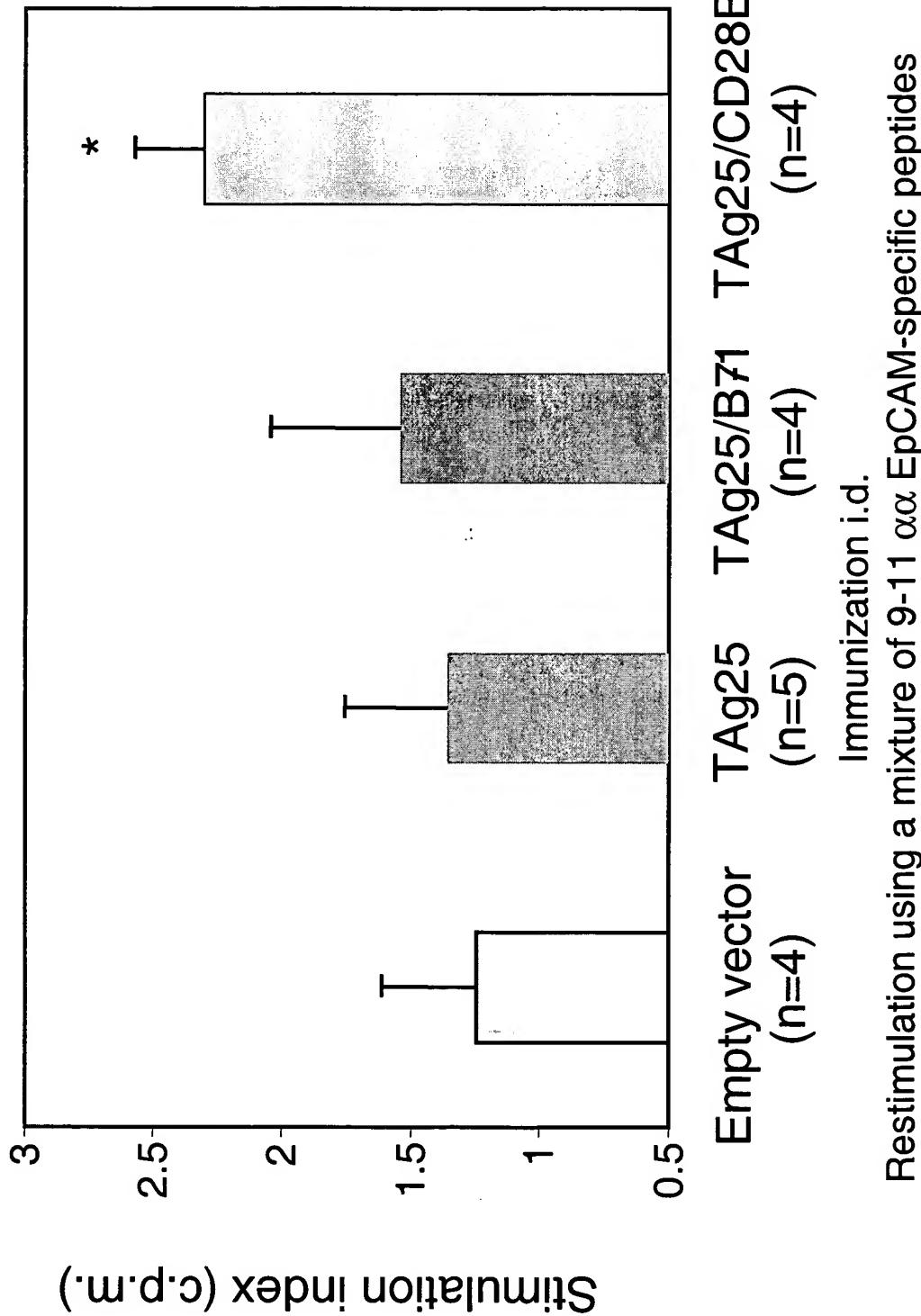


Figure 18

**19/21**

Vaccine	Antigen-specific Response	
	CD4 T Cell*	CD4 & CD8 T Cell**
Empty vector	0/5	0/5
TAG25	1/5	0/5
TAg25/B71	0/5	0/5
TAg25/CD28BP	3/5	2/5

\* Number of animals positive when restimulated with TAg25  
\*\* Number of animals that are positive for restimulation with both TAG25 and EpCAM peptide mixture in separate cultures

Figure 19

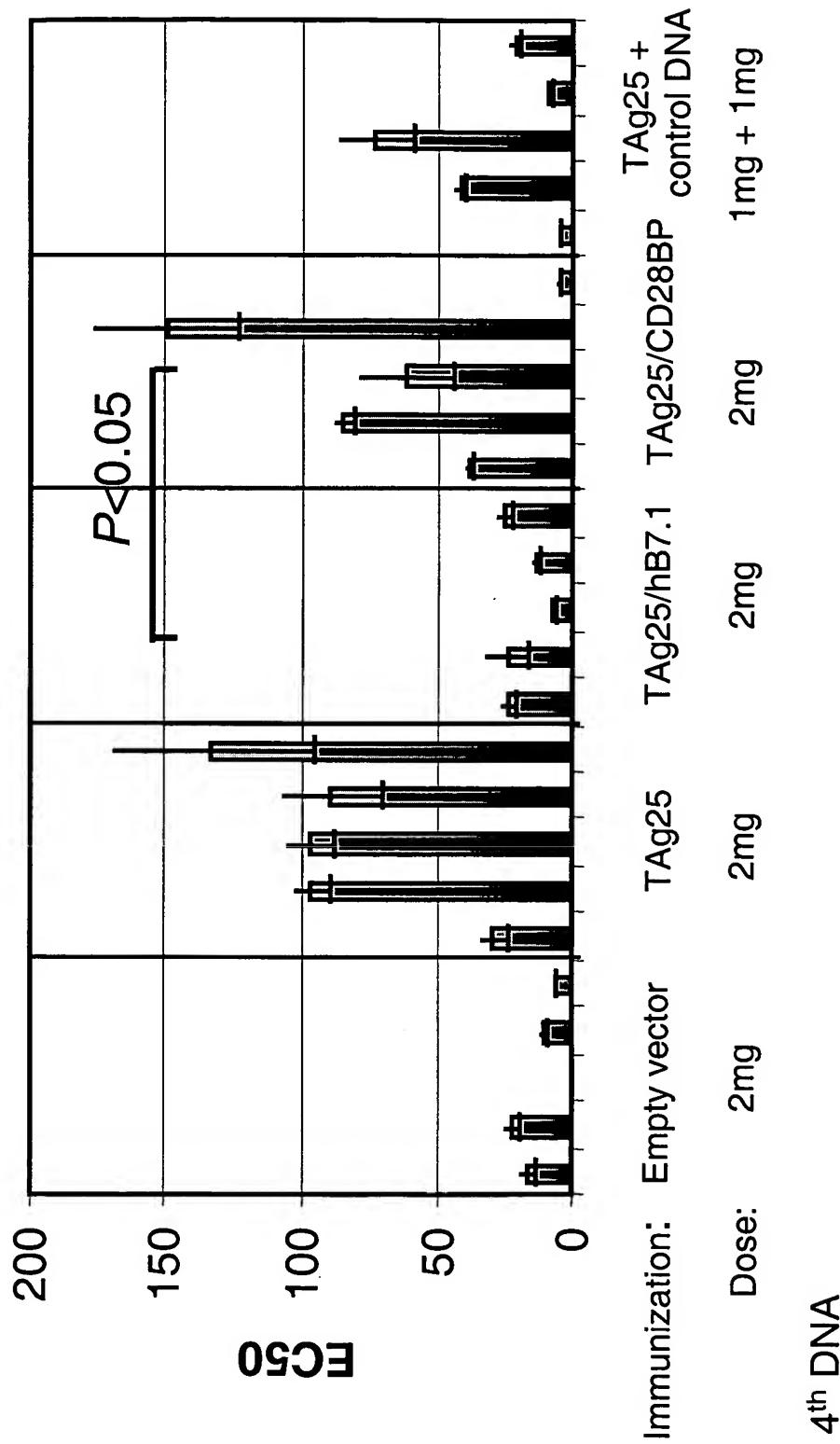


Figure 20

